Claims

- 1. (Previously Presented) A method for producing chitosan from fungal biomass, comprising: reacting the fungal biomass with a caustic at a pressure greater than 0 PSIG for at least 4 hours, thereby producing chitosan.
- 2. (Original) The method according to claim 1, further comprising separating the chitosan from the reaction.
- 3. (Original) The method according to claim 1, wherein the pressure is greater than 5 psig.
- 4. (Original) The method according to claim 1, wherein the pressure is greater than 10 psig.
- 5. (Original) The method according to claim 1, wherein the temperature is greater than 115°C.
- 6. (Original) The method according to claim 1, wherein the temperature is greater than 125°C.
- 7. (Previously Presented) The method according to claim 1, wherein the reaction occurs for greater than 15 hours.
- 8. 10. (Canceled)
- 11. (Currently Amended) The method according to claim 1, wherein the caustic is 5% to 40% by weight <u>percent</u>.
- 12. (Currently Amended) The method according to claim 1, wherein the caustic is 15% to 30% by weight percent.
- 13. (Previously Presented) The method according to claim 1, wherein the reaction occurs for greater than 6 hours.

- 14. (Previously Presented) The method according to claim 1, wherein the reaction occurs for greater than 10 hours.
- 15. (Previously Presented) The method according to claim 1, wherein the pressure is greater than 15 PSIG.
- 16. (Previously Presented) The method according to claim 1, wherein the pressure is greater than 20 PSIG.
- 17. (Previously Presented) A method for producing chitosan from fungal biomass, comprising: reacting the fungal biomass with a caustic at a pressure greater than 0 PSIG at a temperature greater than 125°C for at least 1 hour, thereby producing chitosan.
- 18. (Currently Amended) The method according to claim 17, wherein the reaction occurs for <u>at least</u> 121-50 hours.
- 19. (New) The method according to claim 1, wherein the chitosan produced has an average molecular weight of greater than 80,000.
- 20. (New) The method according to claim 1, wherein the fungal biomass is Aspergillus biomass.